Anomaly Detection SEND FEEDBA

### **Anomaly Detection**

Datasets often contain a small number of items that deviate significantly from the norm. These anomalies can be of interest, since they may be the result of bad data, unusual behavior, or important exceptions to the typical trends. **Anomaly detection** is a machine learning technique concerned with finding these data points.

## Supervised and Unsupervised Approaches

Anomaly detection is another one of the machine learning techniques that can be done in both supervised and unsupervised ways. Let's have a look at both approaches.



#### QUESTION 1 OF 2

Which of the following is true about both supervised and unsupervised approaches to anomaly detection?

⊘ The "anomaly" and "normal" data points are highly imbalanced

It is a binary classification problem

It uses training data that has no normal/anomaly labels available

It involves identifying two major groups (clusters) of entities

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### Applications of Anomaly Detection



Let's now look at a specific example of anomaly detection, so that we can get a more concrete idea of what the process might look like. In this particular example, we'll consider what anomaly detection might look like when applied to machinery maintenance.



# QUESTION 2 OF 2

Which of the following is not a typical application of anomaly detection?

Outlier detection

Condition monitoring

Anti-malware protection

Fraud detection

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